

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended) A synthetic resin laminate having both photochromism characteristics and polarization characteristics consisting essentially of:

(1) two ~~transparent-synthetic~~ polycarbonate resin layers,

(2) a resin layer having photochromism characteristics comprising a cured polyurethane mixture of a polyurethane prepolymer, a curing agent consisting of a compound with a hydroxyl group on at least both ends obtained from diisocyanate and polyol, and at least one photochromic pigment and a resin layer having a polarization characteristics, said resin layer having photochromism characteristics and said resin layer having polarization characteristics being adhered to each other and interposed between said two ~~transparent-synthetic~~ polycarbonate resin layers, and

(3) an adhesive layer to adhere said resin layer having polarization characteristics to one of said two ~~transparent-synthetic~~ polycarbonate resin layers, wherein the other one of said two ~~transparent-synthetic~~ polycarbonate resin layers ~~contacts~~ adheres to said resin layer having photochromism characteristics and has a thickness of 50  $\mu\text{m}$  or above and a retardation value of 150 nm or below, or 3000 nm or above.

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2. (currently amended) The synthetic resin laminate according to claim 1, wherein said one ~~transparent synthetic~~ polycarbonate resin layer to ~~contact~~ adhere to said adhesive layer has a thickness of 100  $\mu\text{m}$  or above.

3. (previously presented) The synthetic resin laminate according to claim 1, wherein said resin layer having photochromism characteristics has a thickness of 50  $\mu\text{m}$  to 250  $\mu\text{m}$ .

4. (canceled)

5. (canceled)

6. (canceled)

7. (currently amended) The synthetic resin laminate according to claim ~~5~~1, wherein said polyurethane prepolymer is a compound with an isocyanate group on both ends obtained from diisocyanate and polyol.

8. (currently amended) The synthetic resin laminate according to claim ~~6~~1, wherein said polyurethane prepolymer is a compound derived from a prepolymer having a number average molecular weight of 500 to 5000 and a curing agent having a number molecular weight of 500 to 5000.

9. (original) The synthetic resin laminate according to claim 7, wherein said polyurethane prepolymer is a compound with an isocyanate group on both ends derived from diphenylmethane-4,4'-diisocyanate and polypropylene glycol.

10. (canceled)

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11. (currently amended) The synthetic resin laminate according to claim ~~40~~1, wherein said curing agent is a compound with a hydroxyl group on at least both ends obtained from tolylenediisocyanate and polypropylene glycol.

12. (currently amended) The synthetic resin laminate according to claim-~~6~~1, wherein said ~~two liquid~~ cured polyurethane mixture further contains a hindered amine compound and/or a hindered phenol compound.

13. (previously presented) The synthetic resin laminate according to claim 1, wherein said resin layer having polarization characteristics comprises a polarizing film containing a dye(s) and being treated with a metal ion(s) and boric acid.

14. (currently amended) A molded article formed into a shape of curved surface by vacuum molding the synthetic resin laminate described in claim-~~5~~1.

15. (currently amended) The synthetic resin laminate according to claim-~~6~~1, wherein said polyurethane prepolymer is a compound with an isocyanate group on both ends obtained from diisocyanate and polyol.

16. (currently amended) A molded article formed into a shape of curved surface by vacuum molding the synthetic resin laminate described in claim-~~6~~1.

17. (previously presented) The synthetic resin laminate according to claim 15, wherein said polyurethane prepolymer is a compound with an isocyanate group on both ends derived from diphenylmethane-4,4'-diisocyanate and polypropylene glycol.

18. (New) A process for producing a synthetic resin laminate having both photochromism characteristics and polarization characteristics, which comprises:

mixing uniformly a polyurethane prepolymer, curing agent and at least one photochromic pigment to produce a resin solution;

coating a resin solution containing at least one photochromic pigment, a polyurethane prepolymer and a curing agent on a polarizing film to form a resin solution layer;

adhering a first polycarbonate sheet to said resin solution layer;

coating an adhesive on the resin solution non-coated side of said polarizing film;

adhering a second polycarbonate resin sheet to said adhesive coated on said polarizing film to form a laminate; and

heat curing said resin solution in said laminate thus obtained,

thereby obtaining the synthetic resin laminate having both polarization characteristics and photochromism characteristics.

19. (New) The process according to claim 18, wherein said adhesive contains a solvent.

20. (New) The process according to claim 19, wherein said solvent is removed by evaporation after coating said adhesive on said polarizing film.

21. (New) The process according to claim 18, wherein said heat cure is performed at a temperature of 60 to 140 °C over 2 hours to one week.